

# STN- Structure Search

10/11/07

10/582,650

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L5 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2005:570901 CAPLUS  
 DOCUMENT NUMBER: 143:79992  
 TITLE: The method of manufacturing of 7-ethyl-10-hydroxycamptothecin  
 INVENTOR(S): Dobrovolny, Petr  
 PATENT ASSIGNEE(S): Pliva-Lachema A.S., Czech Rep.  
 SOURCE: PCT Int. Appl., 16 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005058910	A1	20050630	WO 2004-CZ85	20041214
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1697380	A1	20060906	EP 2004-820383	20041214
EP 1697380	B1	20070516		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, HR, IS				
AT 362478	T	20070615	AT 2004-820383	20041214
JP 2007517778	T	20070705	JP 2006-544199	20041214
US 2007123552	A1	20070531	US 2006-582650	20060613
PRIORITY APPLN. INFO.:			CZ 2003-3442	A 20031216
			WO 2004-CZ85	W 20041214

OTHER SOURCE(S): CASREACT 143:79992; MARPAT 143:79992

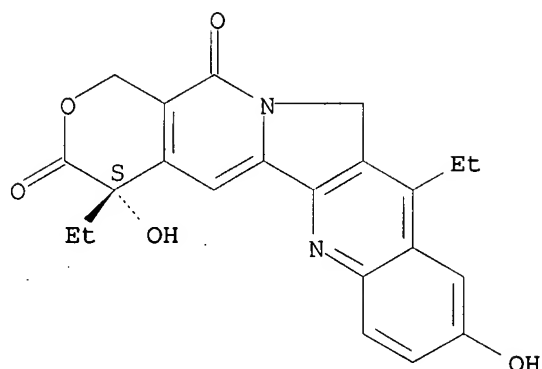
AB The method of manufacturing of 7-ethyl-10-hydroxycamptothecin characterized in that 7-ethyl-1,2,6,7-tetrahydrocamptothecin is oxidized with an oxidizing agent selected from the group comprising iodosobenzene, an ester of iodosobenzene, sodium periodate, potassium periodate, potassium peroxodisulfate, and ammonium peroxodisulfate, in a solvent formed by a saturated aliphatic monocarboxylic acid containing 1 to 3 carbon atoms, and in the presence of water.

IT 86639-52-3P, 7-Ethyl-10-hydroxycamptothecin  
 RL: IMF (Industrial manufacture); PREP (Preparation)  
 (method of manufacturing of 7-ethyl-10-hydroxycamptothecin)

RN 86639-52-3 CAPLUS

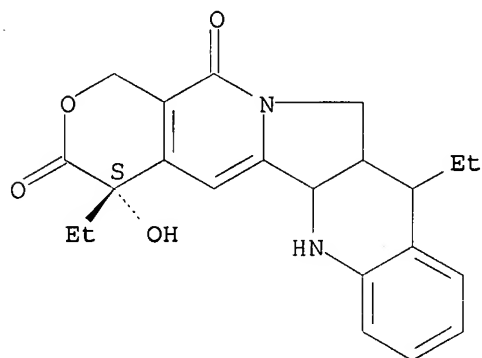
CN 1H-Pyrano[3',4':6,7]indolizino[1,2-b]quinoline-3,14(4H,12H)-dione, 4,11-diethyl-4,9-dihydroxy-, (4S)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



IT 797762-11-9P  
 RL: IMF (Industrial manufacture); RCT (Reactant); PREP  
 (Preparation); RACT (Reactant or reagent)  
 (method of manufacturing of 7-ethyl-10-hydroxycamptothecin)  
 RN 797762-11-9 CAPLUS  
 CN 1H-Pyrano[3',4':6,7]indolizino[1,2-b]quinoline-3,14(4H,5bH)-dione,  
 4,11-diethyl-6,11,11a,12-tetrahydro-4-hydroxy-, (4S)- (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS  
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2004:1019876 CAPLUS  
 DOCUMENT NUMBER: 142:6696  
 TITLE: Process for the preparation of 7-alkyl-10-hydroxy-  
 20(s)-camptothecin  
 INVENTOR(S): Lin, Chien-Hsing; Cheng, Yung-Fa; Cheng, Kau-Ming  
 PATENT ASSIGNEE(S): Scinopharm Taiwan, Ltd., Taiwan  
 SOURCE: PCT Int. Appl., 13 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004100897	A2	20041125	WO 2004-US14827	20040512
WO 2004100897	A3	20050317		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,

CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW,  
 RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

AU 2004238358	A1	20041125	AU 2004-238358	20040512
CA 2523059	A1	20041125	CA 2004-2523059	20040512
CA 2578767	A1	20041125	CA 2004-2578767	20040512
US 2004235878	A1	20041125	US 2004-844225	20040512
US 7151179	B2	20061219		
EP 1628982	A2	20060301	EP 2004-751971	20040512
R: CH, DE, FR, GB, IT, LI				
CN 1788010	A	20060614	CN 2004-80013075	20040512
JP 2007501275	T	20070125	JP 2006-532977	20040512
IN 2005CN02954	A	20070525	IN 2005-CN2954	20051110

## PRIORITY APPLN. INFO.:

US 2003-469737P	P	20030512
CA 2004-2523059	A3	20040512
WO 2004-US14827	W	20040512

OTHER SOURCE(S): CASREACT 142:6696; MARPAT 142:6696

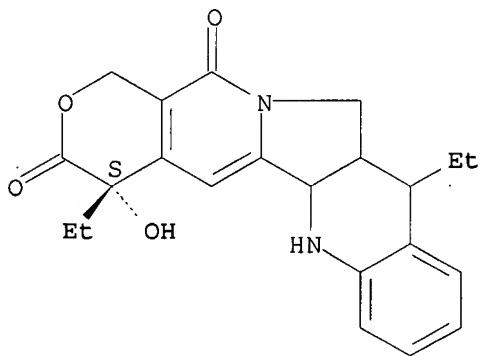
AB A process for the efficient synthesis of Irinotecan intermediate 7-ethyl-10-hydroxy-20(S)-camptothecin was achieved proceeding through readily available 20(S)-camptothecin. Various other tecan compds. may be made by use of corresponding 7-alkyl-10-hydroxy-20(S)-camptothecin intermediates. Thus 7-ethyl-20(S)-camptothecin, prepared from 20(S)-camptothecin, was hydrogenated in HOAc in presence of platinum oxide and DMSO and ammonium hydroxide to give 7-ethyl-1,2,6,7-tetrahydro-20(S)-camptothecin, which was oxidized with iodobenzene diacetate to give 7-ethyl-10-hydroxy-20(S)-camptothecin.

IT 797762-11-9P, 7-Ethyl-1,2,6,7-tetrahydro-20(S)-camptothecin  
 RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (process for preparation of 7-alkyl-10-hydroxy-20(S)-camptothecin)

RN 797762-11-9 CAPLUS

CN 1H-Pyrano[3',4':6,7]indolizino[1,2-b]quinoline-3,14(4H,5bH)-dione,  
 4,11-diethyl-6,11,11a,12-tetrahydro-4-hydroxy-, (4S)- (CA INDEX NAME)

Absolute stereochemistry.



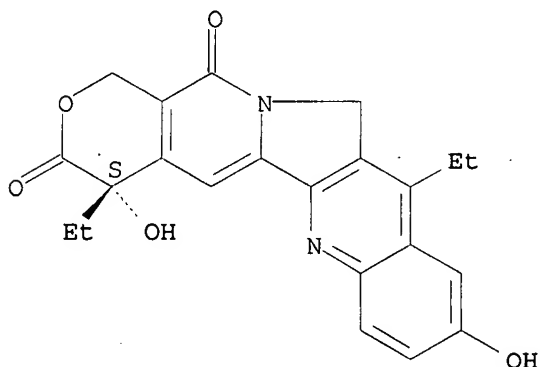
IT 86639-52-3P, 7-Ethyl-10-hydroxy-20(S)-camptothecin  
 RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)  
 (process for preparation of 7-alkyl-10-hydroxy-20(S)-camptothecin)

RN 86639-52-3 CAPLUS

10/582,650

CN 1H-Pyrano[3',4':6,7]indolizino[1,2-b]quinoline-3,14(4H,12H)-dione,  
4,11-diethyl-4,9-dihydroxy-, (4S)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



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(FILE 'HOME' ENTERED AT 09:29:20 ON 11 OCT 2007)

FILE 'REGISTRY' ENTERED AT 09:29:45 ON 11 OCT 2007

E 7-ETHYL-10-HYDROXY-CAMPTOTHECIN/CN

L1 1 S E4

E 7-ETHYL-1,2,6,7-TETRAHYDROCAMPTOTHECIN/CN

L2 1 S E2

FILE 'CAPLUS' ENTERED AT 09:33:19 ON 11 OCT 2007

L3 45 S L1/PREP

L4 2 S L2/RCT

L5 2 S L3 AND L4

=> d l1

YOU HAVE REQUESTED DATA FROM FILE 'REGISTRY' - CONTINUE? (Y)/N:y

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2007 ACS on STN

RN 86639-52-3 REGISTRY

ED Entered STN: 16 Nov 1984

CN 1H-Pyrano[3',4':6,7]indolizino[1,2-b]quinoline-3,14(4H,12H)-dione,  
4,11-diethyl-4,9-dihydroxy-, (4S)- (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1H-Pyrano[3',4':6,7]indolizino[1,2-b]quinoline-3,14(4H,12H)-dione,  
4,11-diethyl-4,9-dihydroxy-, (S)-

OTHER NAMES:

CN 10-Hydroxy-7-ethylcamptothecin

CN 7-Ethyl-10-hydroxy-20(S)-camptothecin

CN 7-Ethyl-10-hydroxycamptothecin

CN SN 38

CN SN 38 (pharmaceutical)

CN SN 38 lactone

FS STEREOSEARCH

DR 113015-38-6

MF C22 H20 N2 O5

CI COM

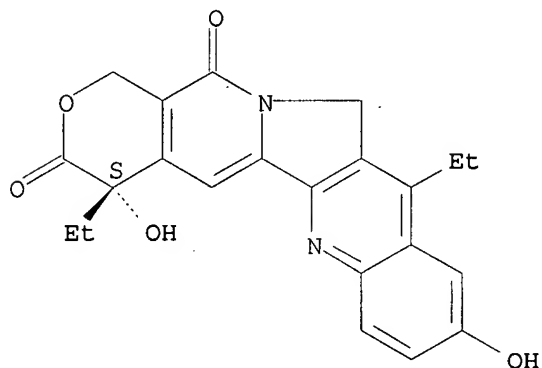
LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN\*, BIOSIS, BIOTECHNO, CA, CAPLUS,  
CASREACT, CHEMCATS, CSCHEM, DDFU, DRUGU, EMBASE, IPA, PS, RTECS\*,

10/582,650

TOXCENTER, USPAT2, USPATFULL

(\*File contains numerically searchable property data)

Absolute stereochemistry. Rotation (+).



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

999 REFERENCES IN FILE CA (1907 TO DATE)

32 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

1004 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> d 12

YOU HAVE REQUESTED DATA FROM FILE 'REGISTRY' - CONTINUE? (Y)/N:y

L2 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2007 ACS on STN

RN 797762-11-9 REGISTRY

ED Entered STN: 15 Dec 2004

CN 1H-Pyrano[3',4':6,7]indolizino[1,2-b]quinoline-3,14(4H,5bH)-dione,  
4,11-diethyl-6,11,11a,12-tetrahydro-4-hydroxy-, (4S)- (CA INDEX NAME)

OTHER NAMES:

CN 7-Ethyl-1,2,6,7-tetrahydro-20(S)-camptothecin

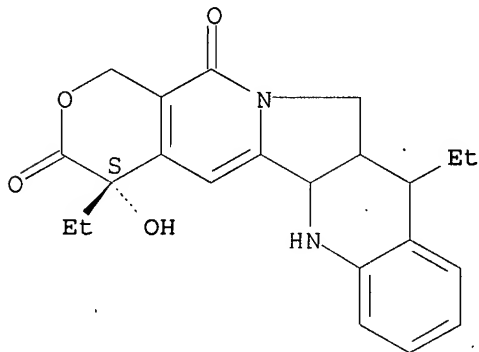
FS STEREOSEARCH

MF C22 H24 N2 O4

SR CA

LC STN Files: CA, CAPLUS, CASREACT, USPAT2, USPATFULL

Absolute stereochemistry.



10/582,650

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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